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<input type="checkbox"/>	L47	(select\$ near2 (item\$ or advertisement or image\$ or product\$1)) with (group\$ or galler\$) with (dynamic\$ or auto\$)	152
<input type="checkbox"/>	L46	(select\$ near2 (item\$ or advertisement or image\$ or product\$1)) with (group\$ or galler\$) with (dynamic\$ or auto\$)	152
<input type="checkbox"/>	L45	((select\$ near2 (item\$ or advertisement or image\$ or product\$1)) near5 (group\$ or galler\$)) same (dynamic\$ or auto\$)	208
		<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L43	(dynamic\$ adj select\$) same (adverti\$ or image\$1 or item\$) same (group or galler\$)	18
<input type="checkbox"/>	L42	(dynamic\$ adj select\$) with (adverti\$ or image\$1) with (group or galler\$)	6
<input type="checkbox"/>	L41	L40 and L31	10
<input type="checkbox"/>	L40	random near2 select\$	17531
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L39	L38 and L37	23
<input type="checkbox"/>	L38	709/(203,218).ccls.	77046
<input type="checkbox"/>	L37	L36 and L31	63
<input type="checkbox"/>	L36	L35 or L34 or L33	151302
<input type="checkbox"/>	L35	715/(440,424,744).ccls.	72525
<input type="checkbox"/>	L34	705/(26,27).ccls.	105271
<input type="checkbox"/>	L33	715/(501.1,513.526).ccls.	72525
<input type="checkbox"/>	L32	L31 same L29	6
<input type="checkbox"/>	L31	(dynamic\$ or automat\$) with ((select\$ or obtain\$ or receiv\$) near2 image\$1) same (www or document\$1 or html or web)	930
<input type="checkbox"/>	L30	L29 and L23	25
<input type="checkbox"/>	L29	(dynamic\$ or automat\$) same (insert\$ or embed\$ or add\$) near5 (imge\$1 or graphic\$) same (www or document\$1 or html or web)	476
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<input type="checkbox"/>	L27	L26 and (random near2 number\$1) with image\$1	1
<input type="checkbox"/>	L26	L23 and (determin\$ or identifi\$) near3 image\$1 with (www or document\$1 or html or web)	267
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L25	L23 and (determin\$ or identifi\$) near3 image\$1 with (www or document\$1 or html or web)	476

<input type="checkbox"/>	L24	L23 and (determin\$ or identif\$) near3 image\$1 same (www or document\$1 or html or web)	661
<input type="checkbox"/>	L23	(dynamic\$ or automat\$) same ((select\$ or obtain\$ or receiv\$) near2 image\$1) same (www or document\$1 or html or web)	2163
<input type="checkbox"/>	L22	L19 and insert\$	45
<input type="checkbox"/>	L21	L20 and (retriev\$ or extract\$) near3 image\$1	21
<input type="checkbox"/>	L20	L18 and (random near number\$1) with (image\$1 or graphical\$1)	34
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<input type="checkbox"/>	L17	(determin\$ or identif\$) near3 (image\$1 or graphical\$) same (document\$1 or www or web or html)	8850
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<input type="checkbox"/>	L14	6401077.pn.	1
<input type="checkbox"/>	L13	(www or web or html or markup) with (dynamic\$ or auto\$) with ((select\$ or chos\$ or choos\$) near2 (image\$1 or item\$1 or picture\$1))	54
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<input type="checkbox"/>	L11	L8 and galler\$	0
<input type="checkbox"/>	L10	L3 and galler\$	0
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<input type="checkbox"/>	L8	(5,794,210 5,973,692 6,045,447 6,052,486 6,057,842 6,058,379 6,061,057 6,141,006 6,181,838 6,366,899).pn.	10
<input type="checkbox"/>	L7	6415320.pn.	1
<input type="checkbox"/>	L6	6466917.pn.	1
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<input type="checkbox"/>	L4	L3 and (dynamic\$ with select\$)	5
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<input type="checkbox"/>	L2	(5,664,111 or 7,007,076).pn.	2
<input type="checkbox"/>	L1	5,664,111 or 7,007,076	55

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## Designing bidding strategies for trading agents in electronic auctions

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## Abstract

Auction-based electronic commerce is an increasingly interesting domain for developing trading agents. In this paper we present our first contributions towards the construction of such agents by introducing both a formal and a more pragmatical approach for the design of bidding strategies that provide buyer agents with useful heuristic guidelines to participate in auction-based tournaments. On the one hand, our formal view relies on possibilistic-based decision theory as the means of handling possibilistic uncertainty on the consequences of actions due to the lack of knowledge about the other agents' behaviour. On the other hand for practical reasons we also propose a two-fold method for decision making that does not require the evaluation of the whole set of alternative actions. This approach utilizes global (market-centered) probabilistic information in a first decision step which is subsequently refined by a second decision step based on the individual (rival-centered) possibilistic information induced from the memory of cases composing the history of tournaments. In this way, the resulting bidding strategy balances the agent's short-term benefits, related to the probabilistic information, with its long-term benefits, related to the possibilistic information.

## Index Terms

## Inspec

## Controlled Indexing

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## Non-controlled Indexing

[auction-based electronic commerce](#) [auction-based tournaments](#) [bidding strategies](#) [electronic auctions](#) [global market-centered probabilistic information](#) [heuristic guidelines](#) [long-term benefits](#) [possibilistic information](#) [possibilistic uncertainty](#) [possibilistic-based decision theory](#) [probabilistic information](#) [short-term benefits](#) [trading agents](#)

## Author Keywords

Not Available

## References

No references available on IEEE Xplore.

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